

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A late blight-resistant potato plant comprising a segment of chromosome 8 of the genome from *Solanum bulbocastanum* which comprises a gene that confers resistance to late blight, wherein the gene conferring the late blight resistance cosegregates with a marker comprising a DNA segment that hybridizes with one or more of SEQ ID NOS: 1, 2, 3, 4 or 5, or the complements thereof selected from the group consisting of a GO2₅₈₆ RAPD marker, a PO9₅₈₇ RAPD marker, a CT88 RFLP marker, a CT148 RFLP marker, a CT252 RFLP marker and a CT68 RFLP marker.
2. Canceled.
3. Canceled.
4. Canceled.
5. (Currently amended) The potato plant of claim 1, which is also resistant to at least one additional disease selected from the group consisting of potato early blight, *Erwinia soft rot*, and *Verticillium* wilt.
6. (Original) The potato plant of claim 1, wherein the late blight resistance gene is incorporated into the plant by somatic hybridization between a cell of a parent of the plant and a cell of *Solanum bulbocastanum*.
7. Canceled.
8. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:5, or a nucleotide sequence complementary thereto.

9. (Previously presented) A vector comprising the nucleic acid molecule of claim 8.

10-15. Canceled.

16. (Previously presented) A late blight-resistant potato plant that is a backcross progeny of a somatic hybrid of *Solanum tuberosum* and *Solanum bulbocastanum*, wherein the plant comprises a segment of chromosome 8 of the *Solanum bulbocastanum* genome having a gene that confers the late blight resistance.

17. (Currently amended) The potato plant of claim 16, wherein the gene conferring the late blight resistance co-segregates with a marker comprising a DNA segment that hybridizes with one or more of SEQ ID NOS: 1, 2, 3, 4 or 5, or the complements thereof selected from the group consisting of a GO2₅₈₆ RAPD marker, a PO9₅₈₇ RAPD marker, a CT88 RFLP marker, a CT148 RFLP marker, a CT252 RFLP marker and a CT68 RFLP marker.

18. Canceled.

19. (Currently amended) The potato plant of claim 16, which is also resistant to at least one additional disease selected from the group consisting of potato early blight, *Erwinia soft rot*, and *Verticillium* wilt.